Project Planning Phase

Project Planning (Product Backlog, Sprint Planning, Stories, Story points)

Date	1 November 2022
Team ID	PNT2022TMID22887
Project Name	Gas Leakage Monitoring & Alerting System for Industries
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Simulation Creation	USN-1	Develop a python script to publish and subscribe to IBM IoT platform	2	High	Srinithya Santhosh
Sprint-1	Software	USN-2	Develop an application with IBM Watson	2	High	Sanjai Sowmiya
Sprint-2	Software	USN-3	Develop A web Application Using Node RED	2	Medium	Sanjai Santhosh
Sprint-2	Software	USN-4	Create Node Red flow to get Data from Device	2	High	Sowmiya Srinithya
Sprint-3	Software	USN-5	Create User Dashboard Nodes for creating UI(Web App)	2	Medium	Santhosh Sanjai

| Sprint-3 | Software | USN-6 | UI Node Installation | 2 | High | Srinithya Santhosh |
| Sprint-4 | Testing | USN-7 | Testing A Web Application using Node RED And | 2 | High | Srinithya Sowmiya Sanjai Santhosh |

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Story Points – 8 points

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	16	5 Days	25 Oct 2022	29 Oct 2022		31 Oct 2022
Sprint-2	16	8 Days	31 Oct 2022	07 Nov 2022		08 Nov 2022
Sprint-3	16	6 Days	09 Nov 2022	13 Nov 2022		14 Nov 2022

Sprint-4	8	6 Days	15 Nov 2022	17 Nov 2022		17 Nov 2022 – 18 Nov 2022

Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

Average Velocity = 56/4= 14

Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.